

ABSTRACT OF THE DISCLOSURE

A structure of multi-directional, combination-type ratchet wheel wrench with sleeve is disclosed. The structure comprises an elongated handle having a hexagonal opening each at the end thereof, wherein a ratchet wheel is mounted within the hexagonal opening and is controlled to move clockwise and counterclockwise and a single corner wall of the hexagonal opening is slightly retracted and the top and bottom ends of the corner end face are slightly recessed, and a slot is formed between two recesses; a convex-shaped spring engaged onto the corner wall with a top and a bottom bent section of the spring being engaged with the slot, forming a center slightly protruded section of the spring urging the corner wall; and a sleeve with through opening at both ends thereof and of hexagonal opening of different size, and having a step-like structure, the structure being adaptable to the hexagonal openings at the end of the elongated handle; thereby the ratchet wheel wrench with sleeves of different sizes combined at the end of the hexagonal openings of the wrench is used to tighten or loosen nuts with same sizes as that of the hexagonal opening of the sleeve.